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United States
Department of
Agriculture

Soil
Conservation
Service

Montana
Agricultural
Experiment
Station

Bozeman,
Montana

MONTANA WATER SUPPLY OUTLOOK

Snowpack and Streamflow Forecasts as of January 1, 1985

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
SNOW SURVEY UNIT
Federal Bldg., Rm. 443
10 East Babcock
Bozeman, MT 59715

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Snowpack much improved

Snowpacks with water content between 110 and 130 percent of average were measured in the headwaters of the Bitterroot, Big Hole and Beaverhead Rivers in southwestern Montana and in most of the central Montana mountain ranges.

In a reverse of conditions for the last 2 years, the snowpack in northwestern Montana is well above average for January 1.

With two exceptions, the rest of the state has near or above average snowpack. The exceptions are around Bozeman and Red Lodge.

By January 1, usually about 40 percent of the season's snowpack is on the ground. With considerable time left for snow to accumulate, conditions could change, but this represents a good start for the snow season.

Near average snowpacks with water content between 90 and 110 percent were recorded for the headwaters of the Clark Fork River in an area bounded by Butte, Hamilton, Missoula and Ovando. Another area with near average snowpack includes the headwaters for the Ruby and most of the Yellowstone and Madison Rivers east of the Continental Divide.

Below average snowpack was recorded only for the mountains around Bozeman and Red Lodge. These two areas have water contents between 70 and 90 percent of average.

Most north-central and northwestern areas have a snowpack between 140 and 160 percent of average. Two other areas are also in this category: the headwaters for the Madison and Yellowstone Rivers in Yellowstone National Park and the mountains west of Helena.

The Montana Water Supply Outlook is a publication of the U. S. Soil Conservation Service. The SCS administers the Cooperative Snow Survey Program in cooperation with other federal, state and private agencies, organizations, and individuals.

The report is prepared by SCS, Snow Survey and Water Supply Forecast Staff, Room 443, Federal Building, 10 East Babcock, Bozeman, Montana.

Most streamflows look good!

Based on current snowpack and climatic conditions, most drainages in the state are forecast to have spring and summer streamflows near to above average.

Runoff in the northwestern part of the state is expected to be well above average.

All other areas are expected to have average or above average runoff except for streams in the Gallatin River and Clark's Fork of the Yellowstone River drainages.

Most streams in the Kootenai, Flathead, Lower Clark Fork, and Bitterroot River Basins are forecast to produce runoff 10 to 25 percent above average. Spring and summer streamflows in the Upper Clark Fork, the east side of the Bitterroot, and the south side of the Blackfoot are expected to be in the near average to a little above average range.

Spring and summer streamflow is forecast to be above average in almost all Missouri River drainages. The only area where below average runoff is expected is in the Gallatin River drainage.

The Big Hole, Beaverhead and Madison Rivers in the Missouri River headwaters are predicted to have a little above average flows while the Ruby River is forecast near average. These headwater streams will combine to produce a little above average runoff into Canyon Ferry Reservoir.

Downstream tributaries flowing into the Missouri River are forecast to have above to well above average runoff.

Current snowpack and soil moisture conditions in the Yellowstone River Basin indicate spring and summer runoff should be a little above average in the Yellowstone River headwaters and near to a little below average streamflows from downstream tributaries.



NEW PHONE NUMBER

On January 28, 1985, the phone number of the Montana Snow Survey Office will change to:

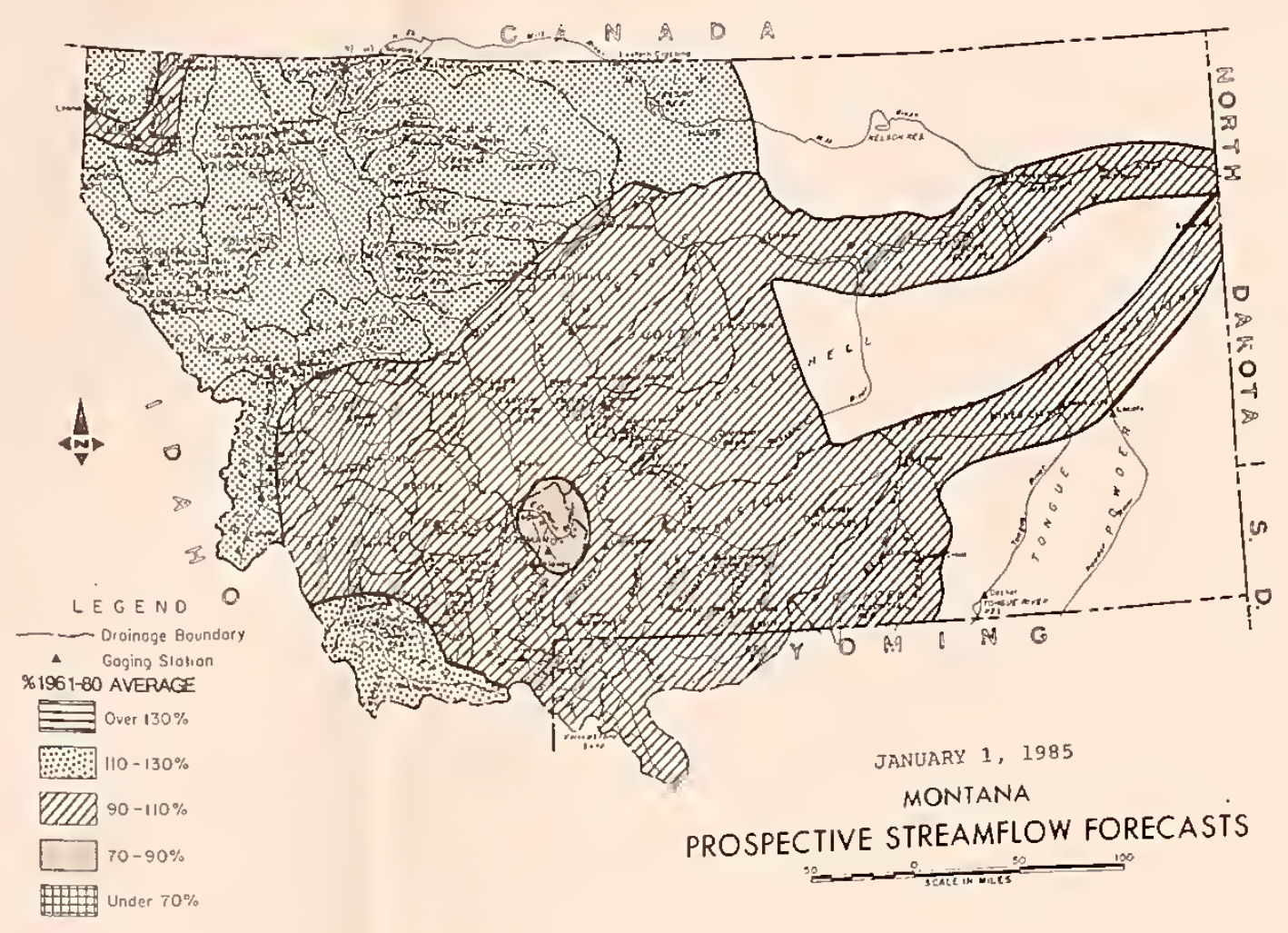
Commercial: 406-587-6843
FTS: 8-585-4843

Please note this change in your telephone directory.

Snow course map enclosed

Included with this issue of the Water Supply Outlook is an updated snow course map. Please keep this for future reference.

Extra copies are available from the Snow Survey Office.



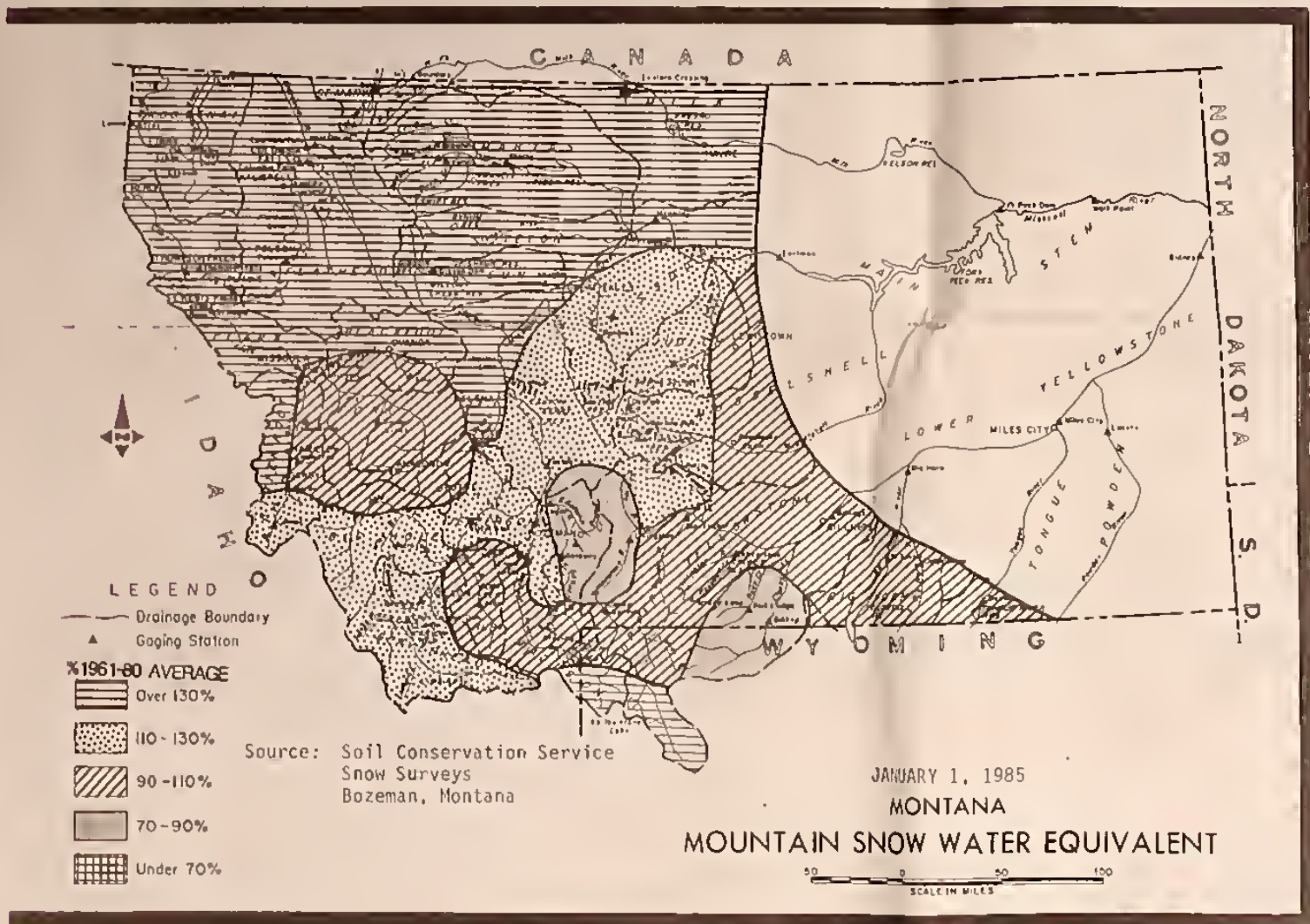
Missouri River & Hudson Bay Drainages

STREAMFLOW FORECASTS

DASH, STREAM-WEIR FORECAST POINT		THIS YEAR				LAST YEAR		THIS YEAR				LAST YEAR	
		FORECAST		THOUSAND CUBIC FEET		FORECAST		THOUSAND CUBIC FEET					
		THOUSAND CUBIC FEET	PERCENT OF AVERAGE	LAST YEAR	PERCENT	THOUSAND CUBIC FEET	PERCENT OF AVERAGE	LAST YEAR	PERCENT				
PERIOD		APRIL - SEPTEMBER								APRIL - JULY			
RED ROCK RIVER near Monida (1)	120	117	244	103	115	119	212	96.3					
BEAVERHEAD RIVER near Grant (2)	180	114	435	158	160	117	337	137					
BEAVERHEAD RIVER at Barraletts (2)	235	112		209	207	115		180					
RUSSY RIVER near Alder	100	99		101	85.0	100		84.6					
BIG HOLE RIVER near Holtrose	810	107		760	755	108		698					
WILLOW CREEK near Harrison	20.8	104		20.0	18.7	105		17.8					
MADISON RIVER near Graveling (2)	545	110	575	496	430	111	440	388					
MADISON RIVER near McCallister (4)	930	110	1,114	848	750	112	874	672					
GALLATIN RIVER near Gateway	490	90		545	420	91		464					
SUM OF EAST-WEST FORKS HYALITE CR. nr Bozeman (5)	22.9	80		28.6	19.2	78		24.7					
HYALITE CREEK near Bozeman (6)	36.7	82		44.8	31.5	81		38.7					
GALLATIN RIVER at Logan	540	88		611	455	87		523					
MISSOURI RIVER at Toston (7)	2,643	104	3,827	2,545	2,305	105	3,179	2,196					
SHEEP CREEK near White Sulphur Springs	22.8	105		21.8	20.0	105		19.0					
SUN RIVER at Gibson Dam (8)	750	132	336	570	680	130	296	522					
BELT CREEK near Monarch	148	110		134	135	110		123					
MISSOURI RIVER at Fort Benton (9)	4,122	104		3,980	3,600	104		3,468					
TWO MEDICINE CREEK near Browning (10)	300	120		248	280	119		235					
BADGER CREEK near Browning	156	120		130	134	119		113					
INFLUX SWIFT RESERVOIR near Oupoyer	102	118		86.7	89.5	120		74.7					
CUT BANK CREEK at Cut Bank	142	125		114	133	123		108					
MARIAS RIVER near Shelby	705	130		542	665	128		518					
MISSOURI RIVER at Virgelle (11)	4,754	104		4,570	4,160	103		4,030					
MISSOURI RIVER near Landusky (11)	5,293	106		4,880	4,650	106		4,383					
NORTH FORK MUSSELSHELL RIVER near Delphine	7.0	109		6.4	6.0	111		5.4					
SOUTH FORK MUSSELSHELL RIVER above Martinsdale	67.5	107		82.8	65.0	110		58.9					
MISSOURI RIVER below Fort Peck Dam (11)	5,239	106		4,961	4,700	106		4,428					
MILK RIVER at Eastern Crossing (Mar-Sept.)	143	131		109									
MILK RIVER at Eastern Crossing (12) (Mar-Sept.)	290	104		279									
INFLUX LAKE SAKAKAHEA, ND (11)	13,265	104		12,755	12,750	104		12,239					

SASKATCHEWAN RIVER BASIN

SWIFT CURRENT CREEK at Sherburne (13)	160	123	102	128	140	125	87.4	112
ST. MARY'S RIVER near Babb (13)	605	124		487	530	127		916



Yellowstone River Drainage

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR				PAST RECORD		THIS YEAR				PAST RECORD	
		FORECAST		THOUSAND ACRE FEET		FORECAST		THOUSAND ACRE FEET					
		Thousand Acre Feet	Percent of Average	Last Year	All-time	Thousand Acre Feet	Percent of Average	Last Year	All-time				
		PERIOD		APRIL - SEPTEMBER		APRIL - JULY							
YELLOWSTONE RIVER at Corwin Springs	2,230	110	1,997	2,027	1,890	112	1,622	1,686					
YELLOWSTONE RIVER near Livingston	2,545	107		2,379	2,130	108		1,969					
BOULDER RIVER at Big Timber	380	95		398	340	93		366					
STILLWATER near Absarokee (1)	635	100		632	525	99		528					
CLARKS FORK RIVER near Belfry	575	92		628	520	92		563					
ROCK CREEK near Red Lodge	105	91		115	80.0	91		88.1					
INFLOW COONEY RESERVOIR near Royd (2)	52.6	87		60.5	43.4	88		49.5					
YELLOWSTONE RIVER at Billings	4,694	105	4,262	4,516	4,050	106	3,594	3,833					
BIGHORN RIVER near St. Xavier (3)	1,960	99	1,974	1,976	1,820	101	1,688	1,794					
LITTLE BIGHORN RIVER near Hardin	169	93		182	150	93		162					
TONGUE RIVER near Decker	250	93		269	230	94		244					
YELLOWSTONE RIVER at Miles City (4)	6,970	103		6,787	6,105	104		5,906					
POWDER RIVER at Moorhead	240	91		263	225	93		243					
YELLOWSTONE RIVER near Sidney (5)	7,647	102		7,518	6,740	103		6,594					

- (1) Adjusted for storage in Mystic Lake.
- (2) Adjusted for storage in Cooney Reservoir.
- (3) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake, Pilot Butte and Bighorn Reservoirs.
- (4) Adjusted for storage in Bull Lake, Buffalo Bill, Boysen, Pilot Butte, Bighorn and Tongue River Reservoirs.
- (5) Adjusted for reservoirs shown in (4) and diversions into the Lower Yellowstone Canal.

- (1) Adjusted for storage in Lima Reservoir.
- (2) Adjusted for storage in Lima and Clark Canyon Reservoirs.
- (3) Adjusted for storage in Heben Lake.
- (4) Adjusted for storage in Heben Lake and Ennis Lake.
- (5) Subtract East Fork Hualyite Creek and East Fork Hualyite Creek above the Reservoir.
- (6) Adjusted for storage in Middle Creek Reservoir.
- (7) Adjusted for storage in Lima, Heben, Ennis & Clark Canyon Reservoirs.
- (8) Adjusted for storage in Gibbs Reservoir & diversions.
- (9) Adjusted for storage in Lima, Clark Canyon, Heben, Ennis, Gibson, Flabum, Willow Creek & Marys River Reservoirs.
- (10) Adjusted for storage in Two Medicine Reservoir & diversions in Two Medicine Canal.
- (11) Adjusted for all upstream reservoirs.
- (12) Flow at Eastern Crossing minus St. Mary's Canal.
- (13) Adjusted for storage in Lake St.

ALL FORECASTS PREPARED IN COOPERATION
WITH THE NATIONAL WEATHER SERVICE

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

CUMULATIVE 1970-75		THIS YEAR'S SNOW WATER PERCENT OF	
RIVER BASIN WATER-SHEDDING	Number of Cows Average	1974	1975
Beaverhead	14	102	28
Ruby	4	84	104
Big Hole	15	138	125
Boulder	12	174	120
Jefferson	45	121	123
Madison	21	107	122
Gallatin	17	90	92
Missouri Headwater	83	109	115
West-side Missouri (Toston-Cascade)	9	171	124
Smith-Belt-Arrow	7	124	114
Missouri Main-stem	16	142	119
Teton & Sun	5	280	161
Maras	5	280	154
Harpas-Teton-Sun	10	292	156
Judith-Musselshell	10	127	115
Milk	10	265	172
Bear Paws	6	194	200
Missouri (Total)	129	131	123

SUMMARY of SHOW MEASUREMENTS

COMPARISON WITH PREVIOUS YEARS			
RIVER BASIN SUBSURFACED	Number of Circles Averaged	THIS YEAR'S SAND WATER AS PERCENT OF	
		LAST YEAR	PREVIOUS YEAR
Upper Yellowstone			
ab Livingston ..	11	115	110
Shields	6	87	90
Boulder & Stilwellwater	3	107	97
Rock Creek & Clark's Fork	11	100	91
Yellowstone (ab Bighorn River) .	31	104	99
Bighorn/Wyoming .	6	98	95
Little Bighorn ..	1	92	97
Bighorn (Total) .	7	96	96
Tongue	1	42	98
Powder	0	--	--
Yellowstone (Total)	39	100	98

SNOW SURVEY DATA

JANUARY 1985

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
MONTANA						
ARCH FALLS	7350	12/26/84	21	4.3	5.3	5.7
ASHLEY DIVIOIE	4820	12/28/84	28	5.8	2.2	3.3
ASHLEY LAKE	4000	12/28/84	22	3.6	1.6	2.7
BADGER PASS	6900	1/07/85	87	25.0	9.5	20.8
BADGER PASS PILLOW	6900	1/01/85	---	18.1	6.8	16.2
BANFIELD MOUNTAIN	5600	1/01/85	---	16.7	5.2	11.1
BANFIELD MTN PILLOW	5600	1/01/85	---	13.0	5.2	8.5
BARKER LAKES	8250	1/04/85	31	8.1	---	---
BARKER LAKES PILLOW	8250	1/01/85	---	8.4	5.3	8.1
BASIN CREEK	7180	12/28/84	27	5.2	3.0	3.8
BASIN CREEK PILLOW	7180	1/01/85	---	4.6	2.0	2.7
BEAGLE SPRINGS PILL	6850	1/01/85	---	4.7	4.0	3.2
BEAR PAH SKI AREA	5200	1/02/85	22	6.6	1.8	3.2
BIG SKY	7700	1/02/85	32	8.3	8.7	6.8
BLACK BEAR	7950	12/27/84	70	21.6	19.0	16.3
BLACK BEAR PILLOW	7950	1/01/85	---	21.3	18.4	15.5
BLACK PINE	7100	12/28/84	24	5.5	3.6	4.0
BLACK PINE PILLOW	7100	1/01/85	---	5.6	4.2	6.0
BLOODY DICK PILLOW	7550	1/01/85	---	7.0	3.7	5.8
BLUE LAKE	5900	1/07/85	64	16.0	5.5	10.8
BOULDER MTN PILLOW	7950	1/01/85	---	11.3	10.8	9.8
BOX CANYON PILLOW	6700	1/01/85	---	4.9	3.4	3.6
BRIOGER BOWL	7250	12/27/84	34	10.0	11.8	11.3
BRIOGER BOWL PILLOW	7250	12/27/84	---	9.4	10.0	---
CALVERT CREEK	6430	12/28/84	26	5.4	4.2	4.6
CALVERT CREEK PILLOW	6430	1/01/85	---	5.0	3.5	4.6
CARROT BASIN	9000	12/28/84	56	13.5	17.6	16.2
CARROT BASIN PILLOW	9000	1/01/85	---	12.7	15.3	12.6
CASHE CREEK PILLOW	7800	1/01/85	---	4.6	3.8	2.7
CHESSMAN RESERVOIR	6200	12/27/84	13	2.6	1.5	1.5
CLOVER MEADOW PILLOW	8800	1/01/85	---	8.2	10.5	7.3
COLE CREEK	7850	12/31/84	25	5.6	7.0	9.0
COLE CREEK PILLOW	7850	1/01/85	---	4.9	6.6	7.4
COMBINATION	5600	12/28/84	12	2.1	1.9	2.4
COMBINATION PILLOW	5600	1/01/85	---	2.7	2.6	2.4
COPPER BOTTOM PILLOW	5200	1/01/85	---	8.6	5.6	5.8
COPPER CAMP PILLOW	6950	1/01/85	---	20.4	8.1	16.9
COYOTE HILL	4200	12/27/84	30	5.4	3.0	4.5
CRYSTAL LAKE PILLOW	6050	1/01/85	---	6.9	5.1	6.9
DAISY PEAK	7600	1/02/85	29	6.2	4.2	5.3
DALY CREEK PILLOW	5780	1/01/85	---	5.5	4.0	6.5
DARKHORSE LAKE PILL	8700	1/01/85	---	16.4	13.3	10.1
DEADMAN CREEK	6450	12/26/84	28	6.5	4.6	5.1
DEADMAN CREEK PILLOW	6450	1/01/85	---	6.4	4.3	5.2
DESERT MOUNTAIN	5600	1/01/85	---	12.8E	4.6	6.9
DEVILS SLIDE	8100	12/26/84	32	8.8	9.6	10.5
DISCOVERY BASIN	7050	12/28/84	22	4.9	3.4	4.7
DIVIOIE PILLOW	7800	1/01/85	---	4.2	6.0	4.4
DIX HILL	6400	12/30/84	26	5.3	4.4	5.1

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
DUPUYER CREEK PILLOW	5750	1/01/85	---	6.2	--	--
EMERY CREEK	4350	1/01/85	---	13.0E	4.8	6.3
EMERY CREEK PILLOW	4350	1/01/85	---	11.9	4.9	6.9
FISH CREEK	8000	12/28/84	26	5.4	3.2	4.3
FISHER CREEK PILLOW	9100	1/01/85	---	17.6	16.0	16.1
FLATTOP MTN PILLOW	6300	1/01/85	---	30.9	13.7	21.6
FLEECER RIDGE	7500	12/27/84	28	4.4	4.0	4.8
FROHNER MEADOWS	6480	12/27/84	21	3.7	2.6	3.7
FROHNER MOWS PILLOW	6480	1/01/85	---	4.0	3.0	3.4
GARVER CREEK	4250	1/01/85	---	9.0E	3.8	5.6
GARVER CREEK PILLOW	4250	12/31/84	---	7.5	2.7	5.0
GIBBONS PASS	7100	12/24/84	51	11.9	8.9	9.4
GRAVE CREEK	4300	1/01/85	---	13.5E	5.2	7.7
GRAVE CREEK PILLOW	4300	1/01/85	---	13.2	5.4	8.1
HAND CREEK	5030	12/31/84	41	8.5	4.0	5.6
HAND CREEK PILLOW	5030	1/01/85	---	8.5	3.4	7.0
HANKINS LAKE	6450	1/01/85	---	22.5E	8.9	15.5
HANKINS LAKE PILLOW	6450	1/01/85	---	19.0	7.6	13.6
HEART LAKE TRAIL	4800	1/02/85	69	19.0	8.6	8.5
HEBGEN OAK	6550	12/31/84	26	4.6	6.0	5.0
HELL ROARING DIVIDE	5770	12/26/84	66	16.8	10.0	14.1
HOLBROOK	4530	1/07/85	25	5.5	2.5	4.4
HOLD MEADOW	6600	12/26/84	17	3.6	4.6	5.3
HOOBOND BASIN	6050	1/02/85	118	37.0	18.1	20.1
HOOBOND BASIN PILLOW	6050	1/01/85	---	30.7	14.2	18.6
HOOBOND CREEK	5900	1/02/85	113	33.6	17.3	17.8
JOHNSON PARK	6450	1/02/85	19	3.8	3.5	3.3
KINGS HILL	7500	12/26/84	33	8.0	5.0	6.7
KIWAHIS CAMP	3720	1/02/85	9	1.4	1.6	1.1
KRAFT CREEK PILLOW	4750	1/01/85	---	9.1	6.2	5.5
LAKEVIEW CANYON	6930	12/31/84	24	5.8	5.1	5.4
LAKEVIEW RIDGE	7400	12/31/84	23	5.6	5.1	4.8
LAKEVIEW RIDGE PILL	7400	1/01/85	---	6.0	6.8	5.1
LEHMI RIDGE	8100	12/27/84	24	5.4	5.0	--
LEHMI RIDGE PILLOW	8100	1/01/85	---	5.4	3.4	4.8
LICK CREEK	6860	12/26/84	19	3.7	3.6	4.2
LICK CREEK PILLOW	6860	1/01/85	---	3.9	3.9	3.9
LOME MOUNTAIN	8880	1/02/85	42	11.8	11.3	10.0
LOST HORSE	5940	1/03/85	67	18.3	9.6	13.3
LOWER IWIN PILLOW	7900	1/01/85	---	10.3	9.8	9.6
LUBRECHT FLUME	4680	12/28/84	19	2.4	2.0	2.8
LUBRECHT FLUME PILL	4680	1/01/85	---	3.1	2.9	2.1
LUBRECHT FOREST NO 3	5450	1/02/85	18	3.2	2.7	2.8
LUBRECHT FOREST NO 4	4650	1/02/85	10	1.6	1.7	1.7
LUBRECHT FOREST NO 6	4040	1/02/85	11	1.8	2.0	1.9
MAISON HYDROFLOT	4200	12/28/84	19	2.0	2.2	3.0
MAISON PLATEAU	7750	12/27/84	45	11.8	10.0	9.5
MAISON FLT PILL	7750	12/27/84	---	11.8	10.0	10.0
MANY GLACIER	4900	1/06/85	59	15.4	4.9	9.8
MANY GLACIER PILLOW	4900	1/01/85	---	13.7	4.7	9.2
MARIAS PASS	5250	1/01/85	58	15.0	4.6	6.9
MAYNARD CREEK	6210	12/27/84	21	5.7	6.7	6.4
MAYNARD CREEK PILLOW	6210	12/27/84	---	3.8	5.1	5.5
MONUMENT PEAK PILLOW	8850	1/01/85	---	7.8	8.9	10.2
MOULTON RESERVOIR	6850	12/27/84	20	3.5	2.2	3.1
MOUNT LOCKHART	6400	1/02/85	57	14.2	5.4	9.0
MI LOCKHART PILLOW	6400	1/01/85	---	12.8	5.3	9.1
MULE CREEK PILLOW	8300	1/01/85	---	7.7	5.5	4.1

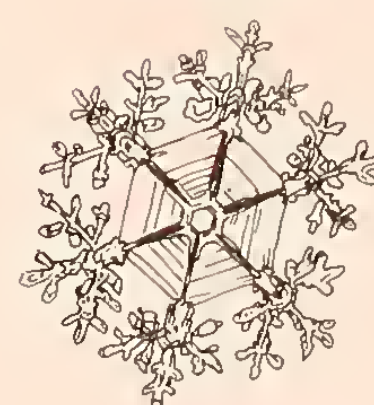
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
NEVADA CREEK PILLLOW	6480	1/01/85	---	8.5	4.3	4.1
NEZ PERCE CAMP	5650	12/28/84	34	7.4	5.5	--
NEZ PERCE CMP PILL	5650	1/01/85	---	7.9	5.9	6.4
NOISY BASIN	6040	1/01/85	---	29.4E	18.0	17.8
NORTH FORK ELK CREEK	6040	1/01/85	---	26.1	17.2	15.9
N.FORK ELK CRK PILL	6250	1/02/85	32	7.3	4.5	5.4
NORTH FORK JOCK	6250	1/01/85	---	6.9	4.1	4.7
NORTHEAST ENTRANCE	6330	12/27/84	71	20.2	19.0	19.3
N.E. ENTRANCE PILLLOW	7350	12/31/84	21	4.0	4.3	4.0
OPNER PARK	7350	1/01/85	---	4.6	3.8	4.4
PETERSON MEADOWS	7150	12/30/84	35	8.0	5.6	7.5
PETERSON MOW PILLLOW	7200	12/27/84	25	5.5	3.1	4.4
PICKFOOT CRK PILLLOW	6650	12/27/84	---	5.3	3.6	4.8
PIKE CREEK PILLLOW	5930	1/01/85	---	4.7	5.9	5.4
PISTOIDE PASS	7200	1/01/85	---	19.0	6.7	12.5
PLACER BASIN PILLLOW	8830	12/27/84	15	2.8	1.0	2.3
POORNAN CREEK	5100	1/01/85	---	9.0	8.0	8.2
POORNAN CRK PILLLOW	5100	1/01/85	---	31.4E	10.8	15.7
PORCUPINE	6500	1/02/85	---	27.0	10.3	12.4
PORCUPINE PILLLOW	6500	12/28/84	17	3.8	3.9	--
ROCKER PEAK	8000	1/01/85	---	3.4	3.4	2.9
ROCKER PEAK PILLLOW	8000	12/27/84	30	6.8	3.7	6.9
ROCKY BOY	4700	1/01/85	---	7.4	3.4	6.9
ROCKY BOY PILLLOW	4700	1/02/85	15	4.8	1.5	1.9
SAOULE MOUNTAIN	7940	1/02/85	---	3.6	1.8	1.9
SAOULE MTN PILLLOW	7900	12/24/84	52	12.2	9.5	10.7
SHOWER FALLS	8100	1/01/85	---	13.3	10.8	11.5
SHOWER FALLS PILLLOW	8100	12/26/84	31	8.5	10.2	11.1
SILVER RUN	6630	1/01/85	---	9.0	11.1	10.8
SILVER RUN PILLLOW	6630	12/31/84	6	1.6	2.4	2.4
SKALKAHU SUMMIT	7450	1/01/85	---	1.6	2.4	1.5
SKALKAHU SUMMIT PILL	7260	12/26/84	43	11.7	6.9	11.8
SKYLARK TRAIL PILLLOW	6200	1/01/85	---	12.2	7.4	12.3
SOUTH FORK SHIELOS	8100	12/28/84	34	9.5	10.1	10.0
S.F.K. SHIELDS PILLLOW	8100	1/01/85	---	7.7	12.2	--
SPOTTED BEAR MTH.	7000	1/01/85	---	7.7	9.0	6.8
SPUR PARK	8100	12/28/84	37	9.2	5.3	7.1
SPUR PARK PILLLOW	8100	12/26/84	40	10.6	8.2	9.6
STAHL PEAK	6030	1/01/85	---	12.2	9.2	10.4
STAHL PEAK PILLLOW	6030	1/01/85	---	28.5E	14.6	19.7
STORM LAKE	7780	1/01/85	---	23.3	12.6	17.2
STUART MOUNTAIN	7400	12/27/84	31	7.1	5.0	5.6
SUCKER CREEK	3960	12/31/84	65	17.8	15.2	13.2
TAYLOR ROAD	4080	1/02/85	6	.6	1.8	.4
TEN MILE LOWER	6600	1/02/85	16	3.8	2.2	1.9
TEN MILE MIDDLE	6800	12/26/84	20	4.0	2.6	3.1
TEN MILE UPPER	8000	12/26/84	29	5.9	3.5	4.7
TEPEE CREEK PILLLOW	8000	12/26/84	31	6.8	4.4	5.7
THINKUS LAKE	8100	1/01/85	---	5.7	7.7	5.9
TRUMAN CREEK	6100	12/28/84	99	28.4	10.8	18.2
TV MOUNTAIN	4060	12/28/84	17	3.2	1.8	1.6
TWELVE MILE CREEK	6800	12/30/84	45	11.7	9.2	7.9
12 MILE CRK PILLLOW	5600	12/27/84	48	11.6	7.1	8.5
20 MILE CRK PILLLOW	5600	1/01/85	---	9.7	6.6	7.3
TWENTY-ONE MILE	7150	1/01/85	39	8.7	6.8	7.7
TWIN CREEKS	3580	1/07/85	36	8.0	3.0	5.7
TWIN LAKES	6510	1/03/85	83	23.8	11.8	17.2
TWIN LAKES PILLLOW	6400	1/01/85	---	21.9	13.8	17.2
UPPER HOLLAND LAKE	6200	12/30/84	83	21.6	13.8	15.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
WALORDN	5600	1/02/85	33	7.4	2.8	3.9
WALORDN PILLW	5600	1/01/85	---	7.3	2.6	4.7
WARM SPRINGS	7800	12/31/84	34	7.8	7.4	10.6
WARM SPRINGS PILLW	7800	1/01/85	---	8.1	8.6	11.6
WEASEL OVIOE	5450	1/01/85	---	25.5E	9.9	16.9
WEST YELLOWSTONE	6700	1/01/85	36	7.7	5.8	5.0
W. YELLOWSTONE PILL	6700	1/01/85	---	6.0	6.0	4.3
WHISKEY CREEK	6800	12/27/84	43	12.0	9.0	7.1
WHISKEY CREEK PILLW	6800	1/01/85	---	10.0	7.7	7.3
WHITE HILL PILLW	8700	1/01/85	---	12.5	10.8	11.0
WILLOW CREEK	6500	12/31/84	15	2.9	4.1	3.8
WOOD CREEK PILLW	5960	1/01/85	---	9.5	2.2	5.1



| SNOW

SNOW	THIS YEAR			PAST RECORD	
	Drainage Basin and/or Snow Course	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)
NAME	Elevation				Last Year Average
<u>DECEMBER 1, 1984 SNOW SURVEYS</u>					
Desert Mountain	5600	11/30/84	28	6.2	
Emery Creek	4350	11/30/84	33	8.0	
North Fork Jocko	6330	11/27/84	37	9.7	
Spotted Bear	7000	11/27/84	16	4.6	
Trinkus Lake	6100	11/27/84	43	12.5	
Upper Holland Lake	6200	11/27/84	31	9.2	



Columbia River Drainage

STREAMFLOW FORECASTS

BASIN, STREAM AND/OR FORECAST POINT	THIS YEAR		PAST RECORD		THIS YEAR		PAST RECORD		THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRES FEET		FORECAST		THOUSAND ACRES FEET		FORECAST		THOUSAND ACRES FEET	
	THOUSAND ACRES FEET	PERCENT OF AVERAGE	LAST YEAR	AVERAGE	THOUSAND ACRES FEET	PERCENT OF AVERAGE	LAST YEAR	AVERAGE	THOUSAND ACRES FEET	PERCENT OF AVERAGE	LAST YEAR	AVERAGE
PERIOD	APRIL - SEPTEMBER				APRIL - JULY				APRIL - JUNE			
KOOTENAI RIVER below Libby Dam (1)	7,460	106	5,466	7,041	6,380	106	4,520	6,020				
FISHER RIVER near Libby	340	129		264	325	131		248				
YAK RIVER near Troy	680	130		523	660	132		500				
KOOTENAI RIVER at Leona (1)	9,060	105	6,534	8,602	7,900	105	5,596	7,498	6,350	105	4,282	6,051
INFLOW HOULTON RESERVOIR nr Butte (Million Gallons)					290	110	182	263	265	112	179	237
WARM SPRINGS CREEK AT HEYERS DAM near Anaconda (2)	50.0	107		46.8	42.5	112		37.8				
FLINT CREEK near Southern Cross (3)	19.0	104	26.3	18.3	16.5	107	21.3	15.4				
FLINT CREEK below Boulder Creek (4)	78.7	104		75.8	63.0	106		59.5				
INFLOW LOWER WILLOW CREEK RESERVOIR near Hall (5)	16.2	103	11.6	15.7	15.4	103	10.2	14.9				
MIDDLE FORK ROCK CREEK near Philipsburg	84.0	107		78.2	76.5	109		70.5				
NEVADA CREEK near Finn	23.0	100		23.0	21.5	101		21.3				
BLACKFOOT RIVER near Bonner	1,130	113		999	1,040	115		903	890	114		782
CLARK FORK RIVER above Milltown (6)	855	105		816	760	107		708	655	107		597
CLARK FORK RIVER above Missoula	1,985	109	1,565	1,815	1,775	110	1,360	1,612	1,500	109	880	1,379
WEST FORK BITTERROOT RIVER near Conner (7)	210	118		178	195	119		164				
BITTERROOT RIVER near Darby	695	120		580	600	122		532	575	124		463
SKALKAH CREEK near Hamilton	61.8	110		56.0	55.0	113		48.7				
BURNT FORK CREEK near Stevensville (8)	40.4	108		37.4	35.5	110		32.2				
BITTERROOT RIVER at Missoula (9)	1,870	124		1,504	1,745	126		1,384	1,480	124		1,191
CLARK FORK RIVER below Missoula	3,855	116		3,319	3,515	117		2,996	2,980	116		2,570
CLARK FORK RIVER at St. Regis	5,150	117	3,732	4,411	4,650	117	3,322	3,928	4,010	117	2,825	3,428
NORTH FORK FLATHEAD RIVER near Columbia Falls	2,375	124		1,913	2,125	123		1,732	1,800	122		1,471
MIDDLE FORK FLATHEAD RIVER near West Glacier	2,400	128	1,316	1,869	2,225	130	1,236	1,713	1,850	127	1,086	1,453
SOUTH FORK FLATHEAD RIVER near Columbia Falls (10)	2,780	122	1,515	2,278	2,600	121	1,694	2,142	2,250	119	1,416	1,886
FLATHEAD RIVER at Columbia Falls (10)	7,750	125	4,738	6,208	7,150	125	4,294	5,721	6,200	126	3,589	4,921
SWAN RIVER near Big Fork	855	124		689	760	126		604				
FLATHEAD RIVER near Polson (11)	9,400	129	5,586	7,278	8,600	128	5,102	6,712	7,200	125	4,284	5,759
CLARK FORK RIVER near Plains (11)	14,700	121	9,695	12,153	13,400	121	8,914	11,071	11,450	121	7,457	9,459
THOMPSON RIVER near Thompson Falls	325	125		261	295	127		233				
PROSPECT CREEK at Thompson Falls	173	121		142	163	123		132				
CLARK FORK RIVER at Whitehorse Rapids (12)	16,100	119		13,575	14,600	118		12,351	12,470	118		10,570

- (1) Adjusted for storage in Lake Kootenai.
- (2) Adjusted for storage in Silver Lake, diversions to and pumping from Georgetown Lake.
- (3) Adjusted for storage in Georgetown Lake, diversions from and pumping to Silver Lake.
- (4) Sum Flint Creek at Maxville and Boulder Creek at Maxville.
- (5) Sum of North Fork Lower Willow Creek near Hall and South Fork Lower Willow Creek near Hall.
- (6) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

- (7) Adjusted for storage in Painted Rocks Reservoir.
- (8) Adjusted for diversion into Sunset Highline Canal.
- (9) Difference in observed flow Clark Fork above and below Missoula.
- (10) Adjusted for storage in Hungry Horse Reservoir.
- (11) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.
- (12) Adjusted for storage in Hungry Horse Reservoir, Flathead Lake and Hoxon Rapids Reservoir.

ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE

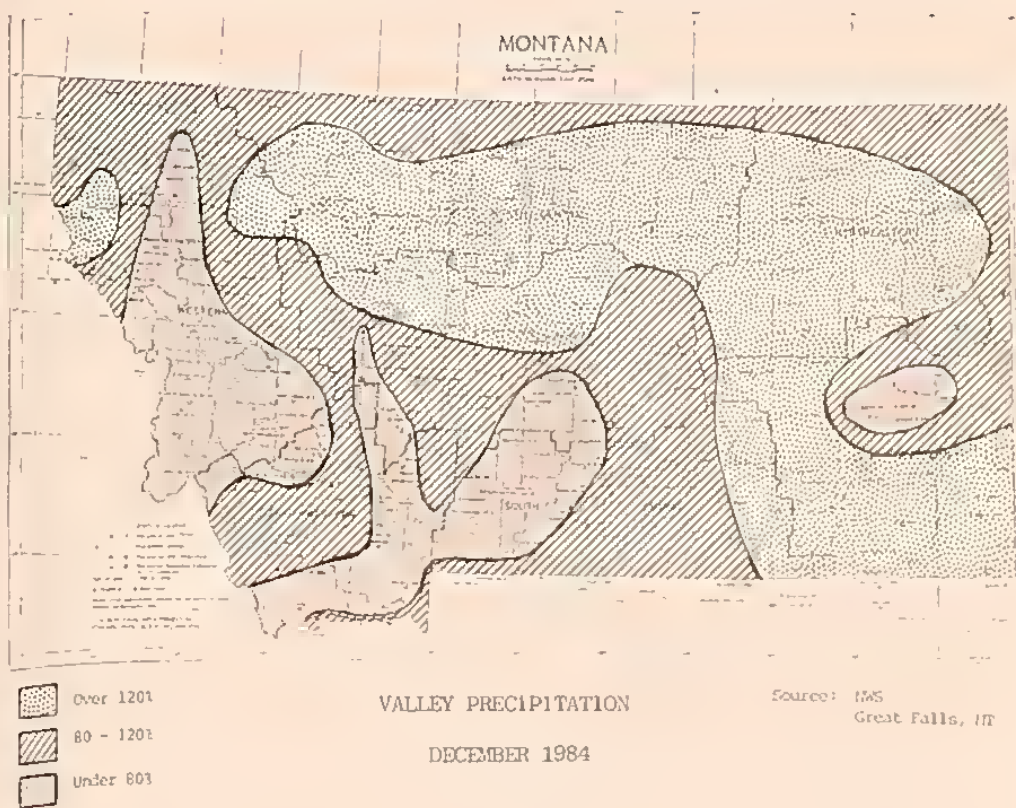
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
East Kootenay/BC.	0	--	--
Kootenai/Montana	15	244	157
Kootenai above Bonners Ferry...	15	244	157
Little Bitterroot	5	228	147
N. Fk. Flathead..	7	212	144
M. Fk. Flathead..	9	274	158
S. Fk. Flathead..	11	166	150
Swan	8	149	148
Flathead	39	192	150
Stillwater & Whitefish.....	3	194	127
Clark Fork above Blackfoot	32	151	110
Blackfoot	16	129	124
Upper Clark Fork above Missoula ..	48	142	115
Bitterroot	13	156	121
Lower Clark Fork below Missoula ..	11	208	180
Clark Fork (Total w/o Flathead)...	72	164	134
Pend O'Reille (Clark Fork & Flathead)	111	176	141
Columbia (Pend O'Reille & Kootenai)	126	185	144

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
COLUMBIA					
Kootenai	Kootenusa	5,748.2	3,112.0	3,619.0	3,157.0
Flathead	Hungry Horse	3,451.0	2,264.0	2,611.0	2,299.0
	Flathead Lake	1,791.0	1,017.0	1,096.0	1,325.0
	Camas (4)	45.2	17.5	28.1	16.8
	Mission Valley (8)	100.3	30.1	52.5	35.3
Clark Fork	Georgetown Lake	31.0	27.0	27.7	28.7
	Lower Willow Creek	4.9	0.2	3.1	1.2
	Nevada Creek	12.6	4.3	3.4	3.8
	Noxon Rapids	334.6	318.0	318.4	314.1
Bitterroot	Painted Rocks	31.7	---	---	17.5
	Como	34.9	7.1	18.5	8.5
MISSOURI					
Beaverhead	Lima	84.0	23.7	18.4	39.5
	Clark Canyon	257.2	149.9	183.5	145.4
Ruby	Ruby	38.8	19.2	26.5	21.4
Madison	Hebgen Lake	377.5	311.3	261.7	258.9
	Ennis Lake	41.0	32.6	31.0	33.4
Gallatin	Middle Creek	8.0	3.8	4.0	3.1
Missouri	Canyon Ferry	2,043.0	1,548.0	1,785.0	1,629.0
	Hauser & Helena	61.9	63.0	63.0	62.2
	Helena Valley	9.2	3.9	4.8	6.4
	Lake Helena	10.4	10.9	10.9	10.6
	Holter Lake	81.9	38.5	77.2	78.5
	Fort Peck Lake	18,910.0	16,220.0	16,250.0	16,310.0
Smith	Smith River	10.6	8.3	8.2	6.4
	Newlan Creek	12.4	9.8	8.8	9.4
Musselshell	Bair	7.0	0.4	2.2	4.0
	Martinsdale	23.1	5.4	13.0	10.7
	Deadman's Basin	72.2	38.4	51.0	43.2
Sun	Gibson	99.1	42.5	43.0	41.2
	Willow Creek	32.2	12.1	23.9	21.2
	Pishkun	32.0	18.8	19.8	17.2
Marias	Lower Two Medicine	11.9	---	---	6.5
	Four Horns	19.2	---	---	12.5
	Swift	30.0	6.4	9.8	13.0
	Lake Frances	111.9	23.4	47.1	70.7
Milk	Elwell (Tiber)	1,347.0	682.7	691.8	510.2
	Beaver Creek	3.5	0.9	3.1	1.6
	Fresno	127.2	11.8	27.0	61.3
	Nelson	66.8	27.0	42.0	40.0
HUDSON BAY					
St. Mary's	Lake Sherburne	64.3	33.9	26.5	18.3
YELLOWSTONE					
Stillwater	Mystic Lake	21.0	6.0	10.3	12.4
Clark's Fork	Cooney	27.4	17.8	16.1	12.6
Tongue	Tongue River	68.0	18.5	13.0	26.8
Bighorn	Bighorn Lake	1,356.0	954.6	913.6	667.7





INDEX TO MONTANA SNOW COURSES AND DATA SITES

Snow Course	Elev.	Src.	Twp.	Range	Sensors In Addition to Snow Course ¹	Drainage Basin	Snow Course	Elev.	Src.	Twp.	Range	Sensors In Addition to Snow Course ¹	Drainage Basin	Snow Course	Elev.	Src.	Twp.	Range	Sensors In Addition to Snow Course ¹	Drainage Basin
Abundance Lake	8800	1	35	11W		Big Hole	Gibbons Pass	7100	3	25	19W		Blitterroot	'Saddle Mountain	1940	5	25	19W	S,P,I	Blitterroot
Adams	6460	28	54	18W		Blitterroot	Geos Mountain	7000	20	21N	10W		Blitterroot	'Saddle Mountain	1940	5	25	1E		Madison
Arche Falls	7350	3	55	6E		Gallatin	Gold Creek Lake	1200	14	6N	12W		Blitterroot	'Shower Falls	8100	14	55	6E	S,P,I	Gallatin
Ashley Divide	4820	10	28N	23W	P	Flashad	Gold Store	8100	11	85	16W		Blitterroot	'Silver Run	6630	11	85	19E	S,P,I	Upper Yellowstone
Ashley Lake	4000	8	28N	23W	P	Flashad	Grasshopper	1000	19	5N	8E		Blitterroot	'Stallions Summit	7250	30	6N	17W	S,P,I	Clarks Fork
'Badger Pass	6900	4	21N	11W	A,P,S,T	Irton-Marlas-Sun	'Grav Creek	4100	1	16N	25W	S,P,T	Kootenai	'Stylark Trail	6200	29	19N	17W	S,P,I	/lathead
Bald Eagle Peak	5100	6	27N	31W		Kootenai	Griffin Creek Divide	5150	11	28N	25W		Kootenai	Slag-A-Mell Lake	8150	29	55	17W		Big Hole
Bald Ridge	7500	11	41	10E		Upper Yellowstone	Gunsight Lake	6100	30	26N	13W		Flashad	Slide Rock Mountain	7100	35	10N	16W		Clarks Fork
Banfield Mountain	5600	4	32N	30W	S,P,I,W	Kootenai	'Hond Creek	5015	6	29N	25W	S,P,I	Flashad	Smuggler Mine	6960	24	45	1W		Ruby
Barer Creek	5500	36	26N	31W		Kootenai	Hawkins Lake	6450	18	31N	33W	S,P,I,W	Kootenai	'South Fork Shields	8100	13	4N	10E	S,P,I	Upper Yellowstone
Barrer Highway	4600	31	26N	30W		Kootenai	Haystack	6050	16	11N	12E		Husselshill	Spotted Bear Mountain	1000	23	25N	15W	A	Interdormer
Baree Trail	3800	5	25N	30W		Kootenai	Hears Lake Trail	4800	11	14N	27W		Clarks Fork	'Spur Pass	8100	20	17N	9E	S,P,I	Judith
'Barker Lakes	8250	11	4N	12W	S,P,I	Clarks Fork	Hebgen Dam	6550	22	11S	1E		Madison	'Stahl Peak	6030	5	16N	25W	S,P,I	Kootenai
'Basin Creek	1160	31	1N	7W	S,P,T	Clarks Fork	Hill Roaring Divide	5110	15	12N	22W		Flashad	Star Lake E	9650	31	8S	15E	A	Upper Yellowstone
Bassano Trail	5150	11	24N	25W		Flashad	Herrig Junction	4850	19	14N	23W	P	Flashad	Stemple Pass	6600	16	13N	7W		Missouri Main Stem
'Beagle Springs	8850	6	16S	11W	S,P,I	Beaverhead	Highwood Divide	5650	16	19N	9E	P,HSC	Missouri Main Stem	Storm Lake	1180	19	4N	13W		Clarks Fork
Bear Basin	8150	9	6S	3E		Gallatin	Highwood Station	4600	20	20N	9E	P,HSC	Missouri Main Stem	Styler Basin	6180	26	14N	24W	P	Flashad
Bear Paw Ski Area	5200	27	28N	16E	P	MTA	Holbrook	4530	18	21W	13W	A	Flashad	Stuart Hill	6500	19	5N	13W		Clarks Fork
Beaver Creek	7850	21	10S	3E	S,P	Madison	Hood Meadow	6600	22	4S	6E		Gallatin	Stuart Mountain	1400	6	14N	18W		Clarks Fork
Beaver Lake	5900	31	28N	11W		Flashad	'Hoodoo Basin	6050	11	14N	27W	S,P,I	Clarks Fork	Sucker Creek	1960	11	29N	16E	P	Mills
Berry Meadow	7000	8	5N	5W		Jefferson	Hoodoo Creek	5900	16	14N	27W		Clarks Fork	Taylor Prats	8500	26	9S	2E	S,P	Gallatin
Big Creek	6150	7	22N	18W		Flashad	Isleberg Lake #3	5600	1	35N	17W		St. Mary	Taylor Road	4080	19	29N	16E	P	Mills
Big Sky	7700	30	6S	1F	P	Gallatin	Interdormer	7850	21	1S	12E		Upper Yellowstone	Terr Mile Lower	6600	12	8N	6W		Missouri Main Stem
Big Sky Meadow	6350	35	6S	3E		Gallatin	Interdormer	6450	6	5N	13W		Clarks Fork	Terr Mile Middle	5800	11	8N	6W		Missouri Main Stem
Big Snowy	1150	25	12N	11E		Judith	Jaek Creek	6650	1	6S	1E		Madison	Terr Mile Upper	8000	19	8N	5W		Missouri Main Stem
'Blair Lake	7950	27	15S	5E	S,P,T	Madison	Jahnte Lake Trail	7200	24	1S	16W		Big Hole	'Legee Creek	8000	15	12S	1W	S,P,I	Madison
Black Mountain	7750	34	7N	8W		Clarks Fork	Jahnte Lake Trail	6450	16	10N	11E	P	Big Hole	Libertyville Creek	8850	10	8S	18E		Upper Yellowstone
'Blair Pine	7100	26	8N	15W	S,P,T	Clarks Fork	Josephine Lower #9	4900	22	35N	16W		St. Mary	Linn Creek	1090	15	10S	15W		Bravhead
'Bloody Elk	7600	12	8S	16W	S,P,T	Beaverhead	Keeler Creek	3300	25	30N	15W		Kootenai	Irish Lake	6100	9	25N	17W		Flashad
Blue Lake	5900	25	28N	12W	A	Tejon-Marlas-Sun	Kirg's Hill	7500	34	11N	8E		Missouri Main Stem	Iruman Creek	4080	10	26N	22W		Flashad
Bugs Lake	1750	15	1S	18E		Upper Yellowstone	Kishenehn	3890	14	31N	27W		Flashad	'LV Mountain	6800	33	15N	19W		Clarks Fork
'Boulder Mountain	1950	6	9N	3F	S,P,I	Missouri Main Stem	Kishenehn	3120	9	29N	16E	P,I,W	Mills	'Lewesville Creek	5600	14	5N	23W	S,P,I	Blitterroot
'Box Canyon	6610	28	6S	12E	S,P,I	Upper Yellowstone	Kishenehn	4150	4	19N	17W	S,P,I	Elathead	Lewesville Hills	1150	1	11S	5E		Gallatin
Boulder Creek	5100	24	28N	16E	P	Hill	'Kroll Creek	6100	21	11S	1E		Madison	Lewer Creek	1580	25	26N	16W	A	Interdormer
'Bozeman Experiment Farm	4115	7	2S	5E	S,P,I,HSC	Gallatin	Lakeview Canyon	6930	26	14S	2W		Beaverhead	'Lewer Lake	6510	12	5N	21W	S,P,I	Blitterroot
Brarhan Lake	8850	5	4S	3W		Ruby	'Lakeview Ridge	7400	21	4S	2W	S,P,T	Beaverhead	Upper Holland Lake	6200	28	20N	15W		Flashad
Bridge Bowl	1250	25	1N	6E	S,P	Gallatin	Leah Pass	7480	9	10S	15W		Beaverhead	'Weldner	5600	17	25N	9W	S,P,I	Irton-Marlas-Sun
Bristol Creek	3900	2	32N	30W		Kootenai	'Leah Ridge	8100	4	10S	15W	S,P,T	Baravhead	'Worm Springs	7800	13	6N	11W	S,P,I	Clarks Fork
Brush Creek Tibber	6000	12	10N	26W		Big Hole	'Little Creek	6860	10	1S	6E	S,P,T	Gallatin	Wrasal Divide	5450	20	31N	24W		Kootenai
Bull Mountain	6600	18	2N	9W		Big Hole	Little Port	7400	22	5S	3E		Gallatin	Wrasal Reservoir	1500	9	7S	16E		Upper Yellowstone
Cabin Creek	5200	34	21N	10W		Irton-Marlas-Sun	Logan Creek	4300	34	30N	24W		Flashad	Wasal Reservoir	6100	34	13S	5E	S	Madison
Cañon	8050	21	8S	2W		Madison	Larr Mountain	8880	25	6S	2E		Gallatin	'Whistery Creek	6600	19	14S	5E	S,P,I	Madison
'Calvert Creek	6410	34	2N	14W	S,P,T	Big Hole	Lost Horse	5940	5	4N	23W		Gallatin	'White Hill	8700	18	9S	15E	S,P,I	Upper Yellowstone
Camp Kistery	6400	30	28N	18W		Flashad	Last Saul	4800	31	33N	29W		Kootenai	White Pine Ridge	8850	18	14S	9W		Bravhead
Camp Serla	7890	2	8S	18E		Upper Yellowstone	'Lower Twin	1900	12	4S	3W	S,P,I	Madison	Willow Creek	6500	31	1S	20E		Upper Yellowstone
'Carrat Basin	9000	18	10S	4E	S,P,I	Gallatin	Lower Willow Creek	4740	3	3N	14W	P,HSC	Clarks Fork	'Wood Creek	5960	16	20N	10W	S,P,T	Irton-Marlas-Sun
Carrat Creek	1400	22	8S	7W		Beaverhead	Lubrecht's Flume	4660	13	11N	14W	S,P,T	Clarks Fork	Worm Creek	5700	32	25N	10W		Tejon-Marlas-Sun
'Cash Creek	7800	0	9S	1E	S,P,I	Gallatin	Lubrecht's Flume #3	5450	19	21N	14W		Clarks Fork	Worm Ridge	6800	17	25N	10W		Tejon-Marlas-Sun
Carrat Creek	3160	35	26N	31W		Kootenai	Lubrecht's Flume #4	4650	23	14N	15W		Clarks Fork							
Chessee Reservoir	6200	2	8N	5W		Missouri Main Stem	Lubrecht's Flume #6	4040	11	13N	15W		Clarks Fork							
Chisler Creek	4060	14	33N	21W	P,HSC	Flashad	Lubrecht's Hydrant	4200	22	13N	14W		Clarks Fork							
Chisler Creek	4000	34	7S	7W	P,HSC	Beaverhead	Madison Plateau	7750	28	11S	5E	S,P	Clarks							